



FIG. 1

Q M G F A E N Q L S L E L I R E W I K N 60
CAGATGGGGTTTGGGAGAACCAAGCTTTTCGCTGGAGTTAATACGTGAGTGGATCAAGAAT
H P E A S I C S A E G L P Q F M E I A N 120
CACCCGGAGGCCTCCATTGTCTGGCGGAGGGCCCTGCCGCAGTTCATGGAGATCGCCAAT
F Q D Y H G L P A F L Q G I A K L M E K 180
TTCCAAGACTACCATGGCTTGCCGGCTTTTCTGCAGGGAATCGCGAAATTGATGGAGAAA
V R G G R V K F D P N R V V M S G G T 240
GTGAGAGGAGGAAGGTCAAATTTCGATCCGAACCGGTGGTGATGAGCGGCGGAGGCACT
G A Q E T L A F C L A D P G D A F L V P 300
GGAGCGCAAGAAACGCTCGCGTTTGTCTCGCTGACCCCTGGCGACGCCCTTCCTCGTCCCA
T P Y Y P A F N R D L R W R T G V E L L 360
ACTCCGTACTATCCAGCAATTAAATCGCGATCTCCGTTGGAGAACGGGCGTCGAGCTCCTC
P V H C K S S N H F R V T K T A L E S A 420
CCGGTTCACTGCAAGAGCTCTAATCACTTCAGAGTCACCAAAACGGCGCTAGAAATCGGCA
Y E K A R K D N I R V K G V L I T N P S 480
TAGGAGAAGGCGGAAAGGATAACATCAGAGTAAAGGAGTACTGATAACCAACCCATCC
N P L G T T M D K H T L Q T L V K F V N 540
AACCCGCTCGGCACGACCATGGATAAACACACGCTACAGACCCCTCGTGAAATTCGTAAAC

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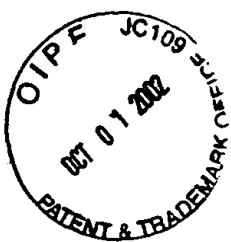
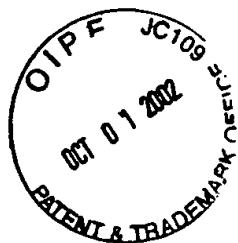


FIG. 1 cont'd

E R R I H L V C D E L Y G A T I F R E P 600
GAAAGGAGATCCACCTAGTCTGGACGAGTTATACGGCGCAACCATCTTTAGGGAGCCC
R F V S I S E V I E E D P N C D K N L I 660
AGGTTGTCAGCATCTCCGAGGTAATAGAAGAGGACCCGAACTCCGACAAGAATCTGATC
H I A Y S L S K D F G L P G F R V G I V 720
CACATTGCGTACAGTCTCTCAAAGGACTTCGGTCTCCCCGGATTCCGAGTCGGGATCGTG
Y S Y N D T V V S C A R R M S S F G L V 780
TATTCCTACAACGACACGGTGGTTAGTTGGCACGCGAGAATGTGAGCTTCGGCCCTCGTC
S S Q T Q Y L L A A M L S G E E F L P T 840
TCGTGCGAGACACAGTACCTACTGGCCGCCATGCTATCCGGCGAAGAATTTTGGCCAACA
L L T E S A K S L S E S H R I F S S G L 900
TTACTGACTGAAAGCGCGAAGAGTCTGTGCGAGAGCCACAGGATCTTCTCTCCGGCCTT
E E V D I R C L D G N A G V F C W M D L 960
GAGGAAGTCGACATCCGCTGCTTGACGGCAATGCCGGGTCTTCTGCTGGATGGACCTA
R H L L K E A T E D G E L E L W R V I V 1020
CGGCACCTCCTCAAAGAAGCCACCGAAGACGGCGAGCTCGAGCTGTGGCGCGTGATAGTG
N N V K L N V S P G S S F Y C A E P G W 1080
AACAAATGTCAAGCTCAATGTGTCCCCCGGTTCGTCTGTTTATTGCGCGGAGCCAGGTTGG

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FIG. 2

Q M G L A E N Q L C F N L I H E W P L K 60
CAGATGGGCCTTGCTGAGAATCAGCTTTGCTTTAATTAATTCACGAGTGGCCGCTGAAA
N P E A S I C T T Q G A A E F R D I A I 120
AACCAGAAGCCTCCATTTGTACAACACAAGGAGCAGCTGAATTCAGAGATATAGCTATC
F Q D Y H G L A E F R E A V A K F M G K 180
TTTCAAGATTATCATGGCTTGCTGAATTCAGAGAGGCTGTTGCAAAAGTTTATGGGAAA
V R R N R A S F D P D R I V M S G G A T 240
GTGAGAAGAAACAGAGCTTCATTTGACCCTGATCGGATTGTTATGAGTGGAGGAGCAACT
G A H E M I G F C L A D P G D A F L V P 300
GGAGCTCATGAAATGATTGGTTTCTGTTGGCTGATCCTGGCGATGCAATCTTGGTTCCA
T P Y Y P G F D R D L R W R T G V K L I 360
ACTCCTTATTATCCAGGGTTTGATAGAGATTGAGATGGAGAACGGGAGTCAAACATCAT
P V V C E S S N D Y Q I T I E A L E A A 420
CCAGTTGCTGTGAAAGCTCAAACGATTACCAGATCACCATAGAACCCCTGGAAGCTGCT
Y E T A Q E A D I K V K G L V I T N P S 480
TATGAAACCGCACAGAAGCTGACATCAAGGTAAAGGTTTGGTCATAACCAACCCATCA
N P L G T I I T K D T L E A L V T F T N 540
AACCCTGGGAACAATTATTACCAAGGACACATTAGAAGCTCTAGTCACCTTCACCAAC

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FIG. 2 cont'd

H K N I H L V C D E I Y A G Y R L Q P R
CACAAGAACATTCAATCTGGTGTGATGAGATATATGCTGGTTACCGTCTTCAGCCCAGG 600

A E F T S I A E I I E E D K I C C N R D
GCCGAATTCACCAGCATAGCCGAGATAATTGAAGAAGATAAAATTTGTTGCAATCGTGAT 660

L I H I I Y S L S K D M G F P G F R V G
CTCATCCACATCATTTACAGTTTATCCAAAGACATGGGATTCCTGGATTTAGAGTTGGC 720

I V Y S Y N D A V V S C A R K M S S F G
ATTGTGTATTCATACAATGATGCAGTGGTGAGTTGTGCTCGTAAGATGTCGAGCTTCGGC 780

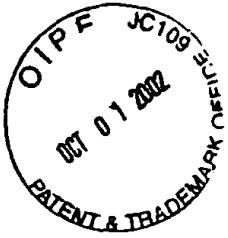
L V S S Q T Q Y L I A S M L A D D E F V
CTAGTATCTTCGCAACCAGTATCTGATTGCAATCCATGTTAGCAGACGATGAATTTGTA 840

D K F I V E S R K R L A M R H S F T Q
GACAAATTTATTGTAGAGAGCAGAAAGAGGCTGGCAATGAGACATAGTTTTTTCACACAA 900

R L A Q V G I N C L K S N A G L F V W M
AGACTTGCTCAAGTAGGCATTAACTGTTTAAAAAGCAATGCTGGTCTTTTGTGGGATG 960

D L R R L L K E Q T F E A E M V L W R V
GATTTGCGTAGACTGCTGAAGAACACAGACATTTGAAGCAGAAATGGTGTATGGAGAGTA 1020

I I N E M K L N V S P G S S F H C S E P
ATTATAACGAAATGAAACTCAATGTATCTCCTGGTTTCGTTCTTTTCCACTGCTCAGAACCT 1080



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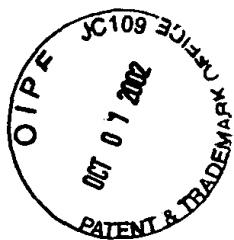


FIG. 3

Q M G F A E N Q L C F D L I E K W V K K 60
CAGATGGGTTTGCCTGAAAAATCAGCTTTGCTTTGATTCGAGAAAGTGGTTAAAAAG
N P N A S I C T A E G V E N F K H I A N 120
AATCCCAATGCTTCCATCTGCACAGCTGAAGGGTTGAAAACTTCAAGCACATAGCCAAC
F Q D Y H G L K E F R Q E V A K L M G K 180
TTCCAAAGACTATCATGGCCTGAAAGAATTTAGACAGGAAGTTGCCAAGTTAATGGGGAAG
A R G G R V T F D P E R I V M S G G A T 240
GCAAGAGGGCAGAGTGACGTTTCGACCCAGAGCGTATTGTGATGAGCGGGGAGCGACA
G A S E T I M F C L A D P G D A L L V P 300
GGCGCCAGCAGACGATTATGTTTGTGCTTGGCGGATCCAGGCGATGCTCTTGTGTTCCC
T P Y Y P G F N R D L R W R T G V Q I I 360
ACTCCTTACTATCCTGGATTCAATAGGGACCTGAGATGGCGAACCGGCGTCCAGATTATT
P V Q C S S S H N F T V T R E A V E A A 420
CCCCGTGCAATGCAGCAGCTCACACAATTTACAGTAACACGGGAAGCCGTAGAGGCTGCG
Y Q K A Q E A N I N V T G L I I T N P S 480
TACCAGAAAGCTCAAGAAGCCAAACATCAATGTACAGGCTTGATCATCACCACCCCTCG
N P L G T T L D S Q T L Q S L V I F V N 540
AATCCGCTAGGCACCACCTTAGACTCACAACACTCCAGAGCTTGGTTCATCTTCGTCAAC

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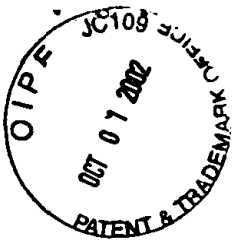


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FIG. 3 cont'd

D K T I H L V C D E I Y A A T V F S S P 600
GACAAGACCATCCACCTGGTCTGCGACGAAATCTATGCCGCCACCGTCTTCAGCTCCCGG
E F V S I G E I I I Q E M D V N R D L I H 660
GAGTTCGTGAGCATCGGGGAGATCATCCAAGAAATGGACGTCAACCCGCGACCTTATCCAC
I I Y S L S K D M G L P G F R V G I V Y 720
ATCATCTACAGCTTGTCCAAAGATATGGGTCTCCCCGGTTTCCGGGTAGGTATTGTGTAT
S Y N D G V L S C G R R M S S F G L V S 780
TCCTACAACGACGGTGTATTAAAGCTGGCGCGCGGATGTCGAGCTTTGGGTTGGTCTCG
S Q T Q Y F L A T L L S D D E F V D Y F 840
TCACAGACTCAATATTTCTGGCGACACTGCTGTCCGACGACGAGTTCGTTCGATTACTTC
L R E S S K R L A R R H H K L T R G L E 900
CTCCGGGAAAGCTCGAAGAGGCTGGCGAGAAGACACCATAAACTCACCAGAGGGCTGGAG
Q V G I K C L K S N A G L F V W M D L R 960
CAAGTGGGATAAAGTGCTTGAAAAGCAATGCCGGACTTTTGTGTGGATGGACCTGCGG
R L L E G P T S F D A E M K L W R T I V 1020
AGGCTCCTGGAAGGTCCAACGTCGTTTGATGCAGAAATGAAGCTGTGGCGGACCATCGTC
N D V K L N V S P G S S F H V A E P G W 1080
AACGACGTGAAGCTGAACGTGTCGCCGGGATCTTCGTTCCACGTGGCGGAGCCGGGGTGG

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F R V C F A
TTCAGAGTATGTTTCGCT 1098

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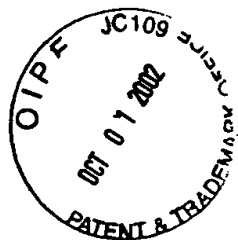


FIG. 4

Q M G L A E N Q L C F D L I E D W I R K
CAGATGGCCCTGCCGAGAATCAGCTTTGCTTTGATTTGATCGAAGACTGGATTGCAAA 60
N P Y A S I C T A E G V D E F K E I A N
AATCCCTATGCCCTCCATTGTACTGCTGAAGGAGTTGATGAGTTCAAGGAGATTGCAAA 120
F Q D Y H G L P E F R K A V A K F M G K
TTTCAAGATTATCATGGCTTGCAGAGTTTAGAAAGGCTGTGGCAAAAGTTTATGGGAAA 180
V R G G R V T F D P D R I V M G G V T
GTGAGAGGTGAAGAGTAACATTTGATCCAGACCGTATAGTCATGGCGGTGGAGTTACA 240
G A N E Q I I F C L A D P G D A F L V P
GGCGAAACGAGCAAAATCATCTTCTGTTTAGCCGACCCCTGGCGATGCTTTCTTGTTC 300
S P Y Y P A F D R D L G W R T G G E I V
TCACCTTATTATCCAGCATTGACCGGACCTGGGATGGCGCACTGGAGGTGAAATAGTT 360
P V P C D S S T N F Q I T R D A L E E A
CCTGTTCCCTGTGACAGCTCAACCAATTTCCAGATAACCAGAGATGCATTGGAAGAAGCA 420
Y E K A R E A N I N I K G L I I T N P S
TATGAAAAAGCTCGAGAAGCCACATTAATATAAGGCTTGATCATATAACAAACCCTTCA 480
N P L G I T L D R D T L K S L V S F I D
AACCCACTTGGCATCACCTAGACAGAGATACTCTTAAAGCCCTAGTGAGCTTCATCGAT 540

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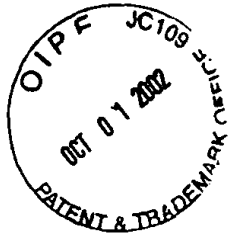


FIG. 4 cont'd

E K N I H F V C D E I Y A A T L F C P P 600
GAAAAGAACATTCACTTTGTCTGCGATGAAATCTATGCTGCCACTCTCTTCTGTCCACCC
K F V S V A E V I Q E M D C N L D L I H 660
AAGTTCGTAAGCGTCGCTGAAGTGATCCAGAAATGGACTGTAATCTTGTATCTCATCCAC
I V Y S L S K D M G L P G F R V G I V Y 720
ATTGTTACAGTTTGTCTAAGGACATGGGCCTCCCTGGCTTAGGGTTGGCATTTGTTAT
S Y N D A V V S C I R K M S S F G L V S 780
TCTTATAATGATGCAGTTGTGAGTTGTATCCGCAAGATGTCAAGCTTCGGTTTGGTATCC
S Q T Q Y L L A S M L S D D E F V E K F 840
TCACAACTCAATATTTACTCGCTTCAATGCTTTCTGATGATGAATTTGTGGAAGTTT
L A E S S K R L A K R Y H I F T K R L E 900
CTAGCGAAAGCTCAAAGAGGCTGGCAAAAAGGTACCATATTTTCACAAAGAGACTTGAG
K V G I N C L K G N A G L F F W M D L R 960
AAAGTGGGATTAACTGCTTGAAGGGAATGCAGGTCTTTTCTCTGGATGGATTGCGA
H L L Q Q E T V D A E M K L W G T I L N 1020
CACCTCCTTCAACAAGAAACAGTTGATGCCGAAATGAAGCTATGGGGCACCATTGTGAAC
D V K L N V S P G S S F H C Q E P G W F 1080
GATGTGAAACTTAACTTACCCAGGCTCTTCCCTTTCATTGCCAGGAGCCTGGTTGGTTC

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AGAGTCTGCTTGGCTG 1096



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FIG. 5

Q M G F G E N L L C F D L V Q E W V L S 60
CAGATGGGATTGGGAAAATCTGCTTTGCTTTGATTTAGTTCAAGAATGGTCTTAAGC
N P E A S I C T A E G I S D F R D I A I 120
AACCAGAAGCCTCTATCTGCACTGCCGAAGGTATAAGTGATTTTCAGAGATATCGCTATC
F Q D Y H G L P E F R N A V A N F M A R 180
TTTCAGGATTATCACGGCTTGCCAGAGTTCAGAAATGCTGTGCAAAATTTTATGGCAAGA
V R G N R V K Y D P D R I V M S G G A T 240
GTGAGAGGGAATAGAGTCAAATACGACCCCTGATCGAATTGTTATGAGCGGTGGAGCAACC
G A H E T V A F C L A D P G E A F L G A 300
GGAGCACATGAGACGGTTGCCCTTTTGTGCTGATCCCGGTGAAGCATTTTGGGTGCC
T P Y Y P G F G R D L R W R T G V Q L F 360
ACTCCTTACTATCCAGGATTGGTCGAGATTGAGATGGAGAACAGGAGTTCAACTTTT
P V V C D S S N N F K I T R E A V E A A 420
CCAGTTGTGTGACAGTTCTAAACAATTTCAAGATTACAAGAGAGCCCGTGAAGCAGCA
Y E K A Q E D H I R I K G L V L T N P S 480
TATGAAAAAGCTCAAGAAGACCACATCAGAATCAAGGGTTTGGTCCTCACAATCCATCG
N P L G T C L D R E T L R S L V S F I N 540
AACCCGCTGGGACTTGTGTTGGACAGAGAAACACTAAGAAGTTTAGTAAGCTTCATTAAT

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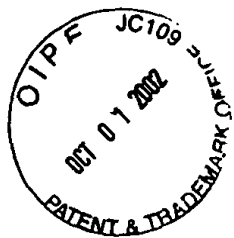
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FIG. 5 cont'd

E K N I H L V C D E I Y A A T I F M G Q 600
GAAAAGAACATCCACTTAGTCTGCGACGAGATTTATGTCGCCACAATCTTCATGGGCCAG
P D F I S I S E I I E E D I H C N R N L 660
CCCGATTTCAATAGCATCTCTGAAATTATAGAAGAAGATATTCACCTGCAATCGCAATCTC
I H L V Y S L S K D L G F P G F R V G I 720
ATCCACCTTGTTTACAGTCTTTCAAAGGATCTGGGGTTCCAGGCTTTAGGGTCGGCATT
I Y S Y N D T V V S C A C K M S S F G L 780
ATATACTACAACGATACAGTTGTGAGTTGGCCTGC AAAATGTCAAGCTTTGGACITT
V S S Q T Q H L I A S M L S D D E F V D 840
GTATCATCACAAACTCAACATTTAATCGCTTCAATGTTATCAGATGATGAATTTGTGGAT
R F I T E S A K R L A K R H R A F T W G 900
AGGTTCACTAGAGTGCTAAAAGGCTTGCAAAAAGGCACAGAGCCTTCACATGGGGG
L S Q V G I G C L K S N A G L F F W M D 960
CTATCTCAAGTAGGCATTGGTTGTTTGAAGAGCAATCGGGGCTATTTTCTGGATGGAT
L H H L L K E Q T D E A E I E L W K V I 1020
TTGCATCATCTCCTCAAGGAGCAAACTGATGAAGCAGAGATAGAACTGTGGAAAGTGATA
I N E V K L N V S P G S S F H C A N P G 1080
ATCAACGAAGTTAAATTAATGTTTCTCCGGGTTCTTCTCCTTTCATTGGGCTAATCCAGGA

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